

Experiment Number: 20005-03

Test Type: 90-DAY

Route: Gavage

Species/Strain: Rat/F 344/N

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Test Compound: Ginseng

CAS Number: 50647-08-0

Date Report Requested: 10/17/2014

Time Report Requested: 13:00:43

First Dose M/F: NA / NA

Lab: BAT

C Number: C20005
Lock Date: 10/28/2003
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date NONE

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 Lab: BAT

F 344/N Rat MALE	0 MG/KG	1000 MG/KG	2000 MG/KG	3000 MG/KG	4000 MG/KG	5000 MG/KG
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	1			2	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(1)	(0)	(0)	(2)	(10)
Bile Duct, Hyperplasia	1 [1.0]					
Hematopoietic Cell Proliferation	1 [1.0]				1 [1.0]	2 [1.0]
Hepatodiaphragmatic Nodule	1	1			2	
Inflammation, Chronic Active	9 [1.0]	1 [1.0]				8 [1.0]
Inflammation, Chronic Active, Focal	1 [1.0]					
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy	1 [1.0]					
Infiltration Cellular, Mononuclear CI	4 [1.0]					5 [1.0]
Inflammation	1 [1.0]					1 [1.0]
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
Glands, Ectasia	2 [1.0]					3 [1.0]

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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Lab: BAT

F 344/N Rat MALE	0 MG/KG	1000 MG/KG	2000 MG/KG	3000 MG/KG	4000 MG/KG	5000 MG/KG
Infiltration Cellular, Mononuclear CI	6 [1.0]					7 [1.0]
Inflammation						1 [1.0]
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation						1 [1.0]
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	10 [1.1]					10 [1.0]
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy						1 [2.0]
Inflammation						1 [1.0]
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy						1 [2.0]
Inflammation	1 [2.0]					
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy						1 [2.0]
Testes	(10)	(0)	(0)	(0)	(0)	(10)
Germinal Epith, Degeneration						1 [4.0]

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First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat MALE	0 MG/KG	1000 MG/KG	2000 MG/KG	3000 MG/KG	4000 MG/KG	5000 MG/KG
Inflammation	1 [1.0]					
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Hematopoietic Cell Proliferation	10 [1.0]					10 [1.0]
Pigmentation, Hemosiderin	2 [1.0]					2 [1.0]
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic Active	8 [1.0]					10 [1.1]
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Respirat Epith, Inflammation						1 [1.0]
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mononuclear CI						1 [1.0]
Inflammation, Suppurative	6 [1.8]					3 [1.3]

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Experiment Number: 20005-03

Test Type: 90-DAY

Route: Gavage

Species/Strain: Rat/F 344/N

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Test Compound: Ginseng

CAS Number: 50647-08-0

Date Report Requested: 10/17/2014

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat MALE	0 MG/KG	1000 MG/KG	2000 MG/KG	3000 MG/KG	4000 MG/KG	5000 MG/KG
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Mineralization	5 [1.0]					7 [1.0]
Nephropathy	8 [1.0]					9 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

END OF MALE DATA

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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 Species/Strain: Rat/F 344/N

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F 344/N Rat FEMALE	0 MG/KG	1000 MG/KG	2000 MG/KG	3000 MG/KG	4000 MG/KG	5000 MG/KG
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	3	1	3	2	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(1)	(0)	(10)
Periesoph Tiss, Hemorrhage				1 [3.0]		
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(1)	(1)	(2)	(1)	(10)
Fibrosis, Focal		1 [1.0]				
Hepatodiaphragmatic Nodule	1	1 [1.0]	1	2	1	1
Inflammation, Chronic Active	7 [1.0]				1 [1.0]	10 [1.0]
Inflammation, Granulomatous						1 [1.0]
Necrosis, Focal		1 [1.0]				
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy	1 [1.0]					
Infiltration Cellular, Mononuclear CI	5 [1.0]					4 [1.0]
Inflammation	1 [1.0]					
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Epithelium, Hyperplasia, Squamous						1 [1.0]

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Lab: BAT

F 344/N Rat FEMALE	0 MG/KG	1000 MG/KG	2000 MG/KG	3000 MG/KG	4000 MG/KG	5000 MG/KG
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
Epithelium, Inflammation, Granulomatous						1 [1.0]
Infiltration Cellular, Mononuclear CI	6 [1.0]					2 [1.0]
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Adventitia, Pigmentation, Hemosiderin	1 [1.0]					
Inflammation, Chronic	1 [1.0]					
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	7 [1.0]					7 [1.0]
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(9)	(0)	(0)	(0)	(0)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Degeneration	1 [1.0]					
Inflammation, Chronic Active	1 [1.0]					
Pigmentation, Hemosiderin	1 [1.0]					
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ovary	(10)	(2)	(0)	(1)	(1)	(10)
Cyst				1		
Uterus	(10)	(0)	(0)	(1)	(0)	(10)
Endometrium, Hyperplasia, Cystic				1 [2.0]		2 [2.0]
HEMATOPOIETIC SYSTEM						

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F 344/N Rat FEMALE	0 MG/KG	1000 MG/KG	2000 MG/KG	3000 MG/KG	4000 MG/KG	5000 MG/KG
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(1)
Deep Cervical, Hyperplasia, Lymphoid						1 [1.0]
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Pigmentation, Hemosiderin	1 [1.0]					1 [1.0]
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Hematopoietic Cell Proliferation	9 [1.0]					9 [1.0]
Pigmentation, Hemosiderin	9 [1.0]					9 [1.0]
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy						1 [1.0]
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Bronchiole, Hyperplasia						1 [1.0]
Inflammation, Chronic Active	8 [1.1]					8 [1.0]
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Cyst						1
Olfactory Epi, Inflammation	1 [1.0]					
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)

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Lab: BAT

F 344/N Rat FEMALE	0 MG/KG	1000 MG/KG	2000 MG/KG	3000 MG/KG	4000 MG/KG	5000 MG/KG
Sclera, Inflammation, Chronic Active						1 [1.0]
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mononuclear CI	1 [1.0]					1 [1.0]
Inflammation, Suppurative	3 [1.3]					7 [1.7]
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Mineralization	7 [1.0]					9 [1.1]
Nephropathy	2 [1.0]					3 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

** END OF REPORT **

a - Number of animals examined microscopically at site and number of animals with lesion

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